

**Abstract****SURFACE METERING DEVICE**

5 The invention relates to a method for measuring the area of polygonal planar surfaces in space, wherein a device is used comprising a range finder (2) mounted on a leg support (4) by means of a frame (15) having a central point (16), means (5, 6) for the angular tracking in space of the  
10 viewing direction of the range finder, means (82) for triggering the acquisition of the spherical coordinates of the point targeted by the range finder, and a digital processing unit. For each polygonal planar surface to be measured, a series of measuring points is plotted which  
15 allows said surface to be determined topologically and individually and which comprises, for each surface edge, at most two points, the projections of which on said surface in a predetermined direction pertain to said edge. The processing unit is suitable for producing a digital model  
20 of the surface by generating segments and/or straight lines from the spherical coordinates of the measuring points plotted and for calculating the surface area of said digital model.